

# Lesson 4.5: Assessment Exercises

### Objectives

After completing this lesson, students will:

Have an understanding of how much they learned and understood during Unit 4

Agenda	
<ol> <li>Student Activity</li> <li>Review Activity Solutions</li></ol>	30 mins
and Wrap Up	20 mins

## Preparation

☐ Print student activity worksheet (one per student)





#### 1. Student Activity: Assessment Puzzles

Distribute one worksheet per student. This is an assessment activity for material covered in Unit 4. Explain the activity to students. Leave enough time at the end to go over the answers.

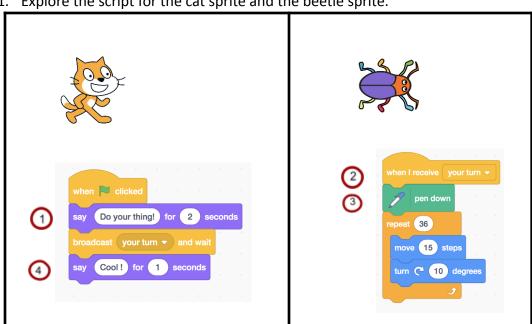
#### 2. Review Activity Answers



Engage students in an interactive discussion and review of the answers to each of the exercises.

#### **Solution to Student Activity:**

1. Explore the script for the cat sprite and the beetle sprite.



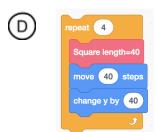
- a. What does the beetle draw when it receives the 'your turn' broadcast message? A triangle
- b. When the green flag is clicked, what is the sequence in which the code runs? Show it by entering numbers from 1 to 4 in the circles.

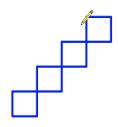




2.

a) Which script will correctly draw the following pattern.

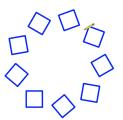




b) Which script will correctly draw this pattern.







3. This purple house was drawn using 2 procedures (blocks). Each one draws a different shape or shapes.

List each procedure and what it draws. If the procedure has 0, 1, or 2 parameters, state what they do.

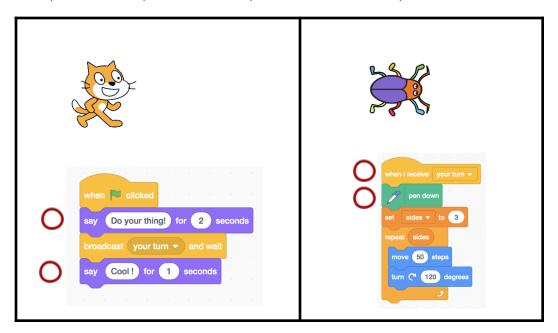
///	7

Procedure name	What shape does it draw?	Any parameters? How many?	What do the parameters represent (for example, width)
Triangle	Triangle	(Could if wanted different size triangles)	
Rectangle	Rectangle or square	2	Width and Height



## Student Activity: Check Your Knowledge

1. Explore the script for the cat sprite and the beetle sprite.



a. What does the beetle draw when it receives the 'your turn' broadcast message?

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- b. When the green flag is clicked, what is the sequence in which the code runs? Show it by entering numbers from 1 to 4 in the circles.
- 2. The following procedure called 'Square length=40' draws a square:

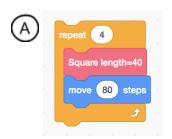
The drawing sprite is in the middle, pointing to the right.

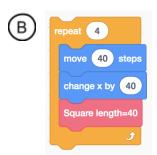


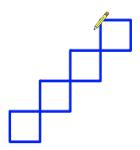




a) Which scripts will correctly draw the following pattern.







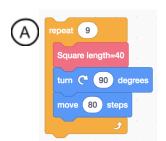




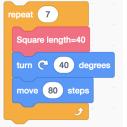




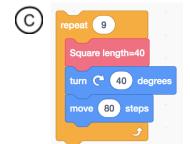
b) Which script will correctly draw this pattern.

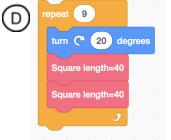














3. This purple house was drawn using 2 procedures (blocks). Each one draws a different shape or shapes.

List each procedure and what it draws. If the procedure has 0, 1, or 2 parameters, state what they do..



Procedure name	What shape does it draw?	Any parameters? How many?	What do the parameters represent (for example, width)